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SCHOLARSHIPS:	National Merit Scholar 1968–1972 (India) University Grants Commission Scholar 1972–1974 (India)
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PUBLICATIONS

1. Gauge quantization for spin 3/2 fields, with D. Z. Freedman, Nucl. Phys. **B114** (1976) 271.
2. Gauge internal symmetry in extended supergravity, with D. Z. Freedman, Nucl. Phys. **B120** (1977) 221.
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5. Super Higgs effect in a class of scalar models and a model of super QED, with M. Fischler and M. Rocek, Phys. Rev. **D16** (1977) 3427.
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33. Path integrals and the solution of Schwinger model in curved space-time, with J. Barcelos-Neto, Phys. Rev. D **33**, 2262 (1986).
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127. Zero Curvature Formalism in Superspace, with H. Aratyn, C. Rasinariu and A. H. Zimerman, in, "Supersymmetry and Integrable Models", Lectures Notes in Physics **52**, (1998).
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129. Supersymmetry and the Chiral Schwinger Model, with R. Amorim, to be published in Phys. Rev. D.
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131. The sAKNS Hierarchy, with H. Aratyn, submitted to Phys. Lett. A.
132. Integrable Models and the Higher Dimensional Representations of Graded Lie Algebras, with J.C. Brunelli, submitted to Mod. Phys. Lett. A.
133. A Lax Representation for the Born-Infeld Equation, with J. C. Brunelli, submitted to Phys. Lett. B.
134. Finite Temperature Perturbation Theory and Large Gauge Invariance, with G. Dunne, submitted to Phys. Rev. D.

CONFERENCE REPORTS

1. "Strong coupling calculations in supersymmetric field theories", Proceedings of the sixth MRST meeting, May 1984.
2. "Supersymmetric nonlinear σ model and the charge algebra", Proceedings of the seventh MRST meeting, May 1985.
3. "Dirac quantization in superspace", Proceedings of the Second Asia Pacific physics conference, Bangalore, Jan. 1986.
4. "QCD sum rules and the electromagnetic form factor of Pion", Proceedings of the second Asia pacific physics conference, Bangalore, Jan. 1986.
5. "Absence of anomaly in the compactified superstring theory in every even dimension", Proceedings of the current trends in physics symposium, Bhubaneswar, Feb. 1986.
6. "Dirac quantization in superspace", Proceedings of the current trends in physics symposium, Bhubaneswar, Feb. 1986.
7. "Path-integral solubility of two-dimensional models", Proceedings of the current trends in physics symposium, Bhubaneswar, Feb. 1986.
8. "Dirac quantization in superspace", Proceedings of the eighth annual MRST meeting, May 1986.
9. "The integrability condition for dynamical systems", Proceedings of the annual DPF meeting, Storrs, Connecticut, Aug. 1988.
10. "Four dimensional heterotic string in background and the origin of Chern-Simons terms", Proceedings of the ninth annual MRST meeting, May 1989.
11. "Various aspects of Chern-Simons terms in string theories", Proceedings of current trends in physics, Bhubaneswar Sept. 1-3, 1989.
12. "Introduction to gauge theories and unification", Proceedings of the ASI, St. Croix June 14-26, 1990.
13. "Kac-Moody algebras from covariantization of the lax operators", Proceedings of beyond the standard model II, Oklahoma Oct. 31-Nov. 3, 1990.
14. "Zero curvature condition 2D gravity theories", Proceedings of the eleventh MRST meeting, May 1991.
15. "On the zero momentum limit of Feynman amplitudes at finite temperature", Proceedings of the twelfth MRST meeting, May 1992.
16. "Phase Transitions in QCD", Proceedings of the Brazilian Physical Society Meeting, Sept. 1993.
17. "The Supersymmetric Two Boson Hierarchy", Proceedings of the Workshop in Theoretical and Mathematical Physics, CAM'95.

18. "Out of Equilibrium Phase Transitions", Proceedings of the Workshop on Quark-Gluon Plasma and Phase Transitions in the Early Universe, Puri, India.

TECHNICAL REPORTS

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2. Unification formula for nested gauge hierarchies, with N. P. Chang and J. Perez-Mercader, CCNY-HEP 79/22.
3. BRS transformations with auxiliary fields and nonlinear gauge fixing, MD81-089.
4. Degenerate potentials, classical stability and supersymmetric Yang Mills theories, with Alex J. Dragt, Maryland preprint.
5. Spontaneously broken supersymmetric SO(10) GUT, with S. Kalara, Rochester preprint-UR843.
6. Are massless supersymmetric gauge theories really massless - ICTP preprint IC/80/73.
7. Meson form-factors and QCD sum-rules, with S. R. Dasu, V. S. Mathur and P. Panigrahi, Rochester preprint-UR923.
8. 1/N pathologies of the CP^{N-1} model, with Kenneth L. Kowalski, Rochester preprint-UR9I0.
9. Comments on "One parameter class of solutions in the Chiral Schwinger model", Rochester preprint-UR963.
10. Six lectures on conformal field theory, Rochester preprint UR1127.
11. Conformal symmetry, Universidade Brasilia preprint.
12. δ-expansion and self-consistent calculation, with P. F. Bedaque, UR-1289.
13. Lectures on Finite Temperature Field Theory, Mehta Research Institute Publication (1995).
14. KdV and NLS Equations as Tri-Hamiltonian Systems, with J.C. Brunelli, UR-1391, hep-th/9410165.
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EDITOR

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BOOKS

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Field Theories at Finite Temperature, World Scientific Publishing (1997).

Advanced Topics in Integrable Models, World Scientific Publishing (in preparation).

COURSES TAUGHT

P238 - Quantum mechanics I (Undergraduate)

P247 - Quantum mechanics II (Undergraduate)

P254 - Nuclear & particle physics (Undergraduate)

P407 - Quantum mechanics I (Graduate)

P408 - Quantum mechanics II (Graduate)

P413 - Gravitation (Graduate)

P510 - Relativistic quantum mechanics (Graduate)

P511 - Field theory (Graduate)

P581 - Particle physics I (Graduate)

P582 - Particle physics II (Graduate)

P584 - Special topics in particle physics (Graduate)

P593 - Advanced quantum field theory (Graduate)

P584 - Integrable models (Graduate)

Ph.D. THESIS:

1. H. A. Lim (8/86)
   "Studies on strong coupling approximations in a class of supersymmetric field theories and dynamical symmetry breaking a la Nambu-Jona-Lasinio".
2. Y. Kwon (4/87)
   "Studies on strings and anomalies".
3. A. Karev (5/87)
   "Studies in the derivative expansion and finite temperature quantum field theory".
4. W. Scherer (7/88)
   "Canonical quantization of constrained systems and coadjoint orbits of diffS^1/S^1".
5. P. Panigrahi (9/88)
   "Studies on the Chern-Simons terms in string and field theories".
6. S. Roy (4/91)
   "Zero curvature condition in the integrable models"
7. W. J. Huang (5/93)
   "Bihamiltonian structure in integrable systems"
8. P. Bedaque (5/94)
   "Topics in Real Time, Finite Temperature Field Theory"
9. I. Horvath (9/94)
   "Chiral Symmetry on the Lattice"

UNDERGRADUATE THESIS:

1. J. Pun (5/90)
   "Supersymmetry and coherent states"